- 1. A method of treating a subject having an insulin-related disorder, the method comprising reducing the level of active $p85\alpha$ in a cell of the subject.
- 2. A method of treating a subject having an insulin-related disorder, the method comprising increasing the level of $p85\beta$ in a cell of the subject.
- A method of identifying a subject at risk for an insulin-related disorder, the
 method comprising evaluating the expression of p85α to determine if the subject is at risk.
 - 4. A method of analyzing a treatment for its effect on insulin metabolism, the method comprising providing a cell in which the expression of p85a has been altered.
 - 5. A genetically modified animal lacking expression of p85α, p55α, and p50α.

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